

FIG. 1



C ACC AGC AAC

→ Precore
ATG CAA CTT TTT CAC CTC TGC CTA ATC ATC TCT TGT ACA TGT CCC

ACT GTT CAA GCC TCC AAG CTG TGC CTT GGG TGG CTT TGG GGC ATG → core

GAC ATT GAC CCT TAT AAA GAA TTT GGA GCT ACT GTG GAG TTA CTC

TCG TTT TTG CCT TCT GAC TTC TTT CCT TCC GTC AGA GAT CTC CTA GAC

ACC GCC TCA GCT CTG TAT CGG GAA GCC TTA GAG TCT CCT GAG CAT

TGC TCA CCT CAC CAC ACC GCA CTC AGG CAA GCC ATT CTC TGC TGG GGG

GAA TTG ATG ACT CTA GCT ACC TGG GTG GGT AAT AAT TTG GAA GAT
79 81 34 85

CC G CAT CAA GGG ATC TAG TAG
CCA GCA TCT AGG GAT CTA GTA GTC AAT TAT GTT AAT ACT AAC ATG

GGT TTA AAA ATT AGG CAA CTA TTG TGG TTT CAT ATA TCT TGC CTT

ACT TTT GGA AGA GAG ACT GTA CTT GAA TAT TTG GTA TCT TTC GGA

GTG TGG ATT CGC ACT CCT CCA GCC TAT AGA CCA CCA AAT GCC CCT

ATC TTA TCA ACA CTT CCG GAA ACT ACT GTT GTT AGA CGA CGG GAC

CGA GGC AGG TCC CCT AGA AGA AGA ACT CCC TCG CCT CGC AGA CGC

AGA TCT CCA TCG CCG CGT CGC AGA AGA TCT CAA TCT CGG GAA TCT

CAA TGT TAG

FIG. 2

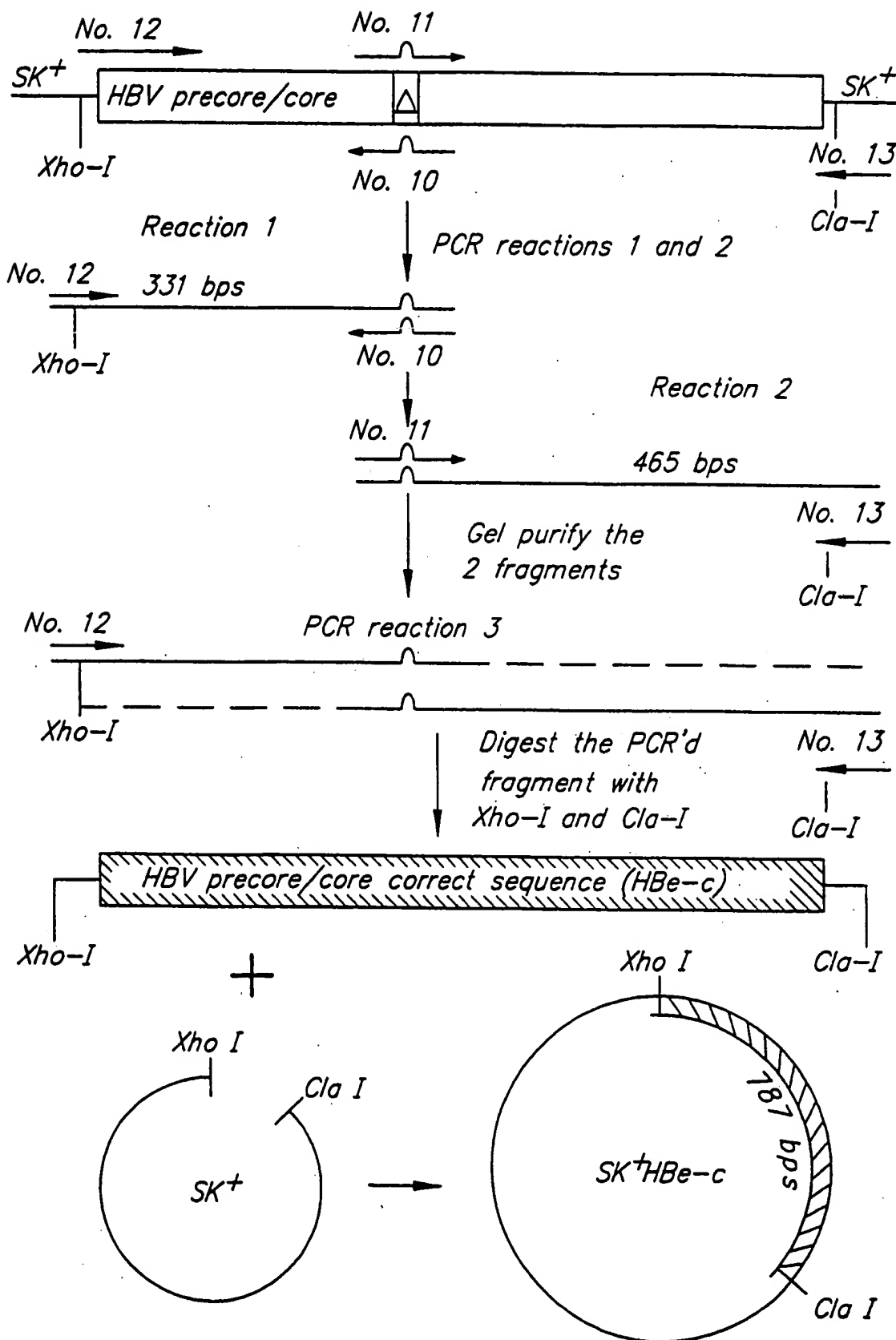


FIG. 3



FIG. 4



ELISA for HBe				ELISA for HB core	
Sample Supernatant	ng/ml* (Incstar)	Sample Lysate	ng/ml* (Incstar)	Sample Lysate	ng/ml** (Abbott)
BC10ME	0.0	BC10ME	0.0	BC10ME	0
BC/HBe 1-10	38.0	BC/HBe 1-10	24.8	BC core 6621	750
BL/6	0.0	BL/6	0.0	BL/6	0
BL/6/HBe 1-12	27.2	BL/6/HBe 1-12	26.0	BL/6 core 6625	100
LMTK-	0.0	LMTK-	0.0	LMTK	0
LM/HBe 1-3	24.8	LM/HBe 1-3	18.1	LM core 1-2	250
EA2/K ^b	0.0			EA2/K ^b	0
EA2/K ^b /HBe 2-1	24.8			EA2/K ^b core 1-2	38
JA2/K ^b	0.0			JA2/K ^b	0
JA2/K ^b /HBe 2-3	22.4			JA2/K ^b core 10-1	200

Standard: rHBeAg (Biogen)

*Standard: rHBcAg (Biogen)

FIG. 5

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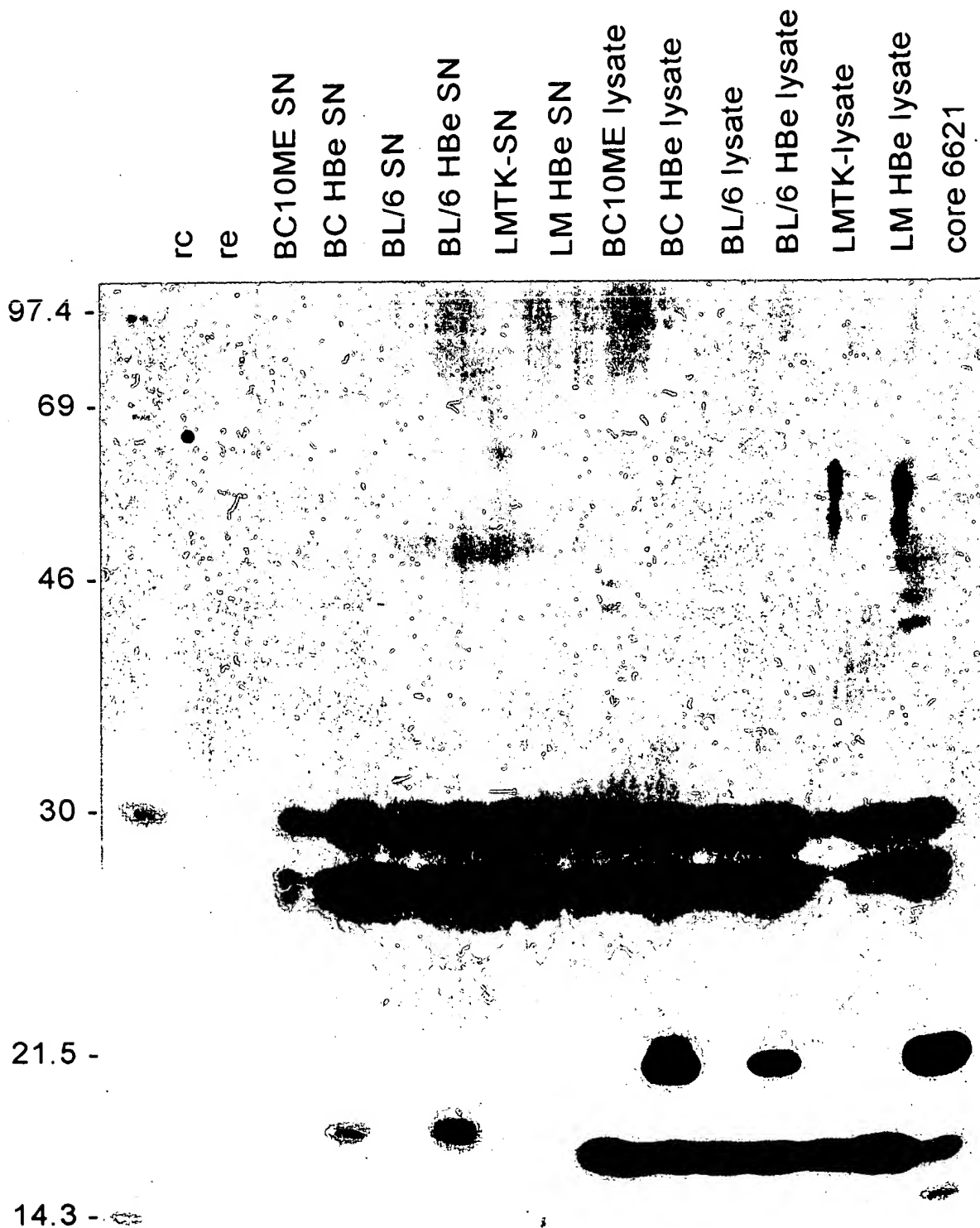


FIG. 6



Antibody Responses to HBcore

No. of I.M. Injections (2 sites)	IgG Titer to HBcore
2	640 160 2560 40 160
4	640 640 2560 640 640
6	2560 2560 2560 640 2560

FIG. 7

01/11/2003
10:11:18
10:11:18



FIG. 8

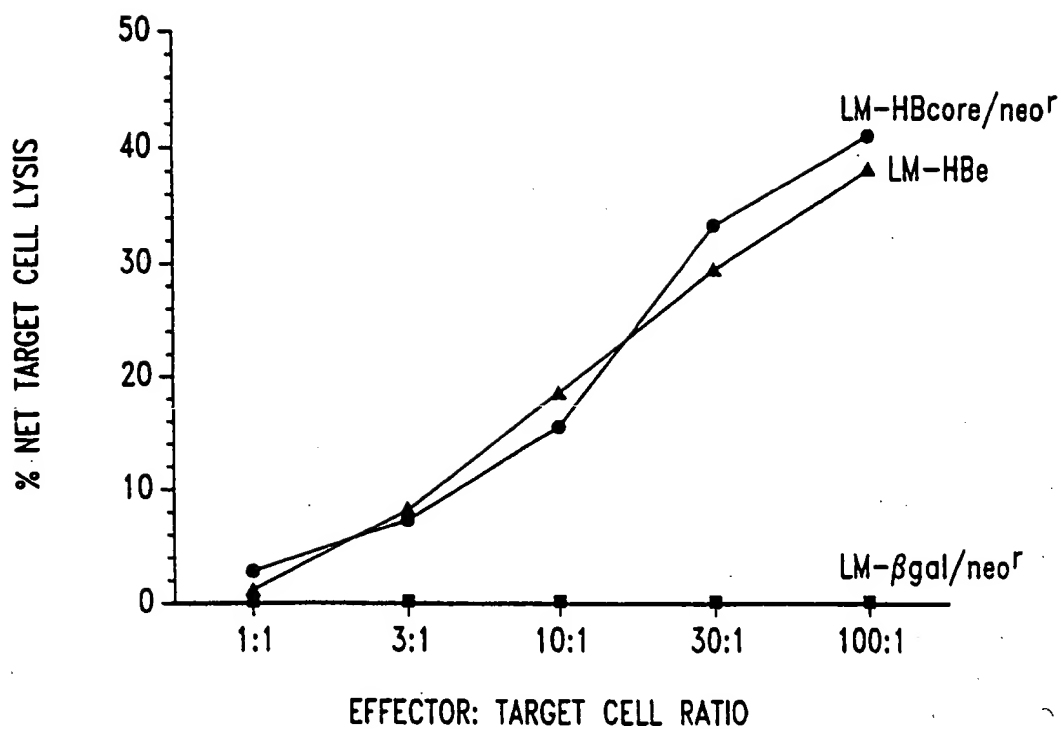


FIG. 9

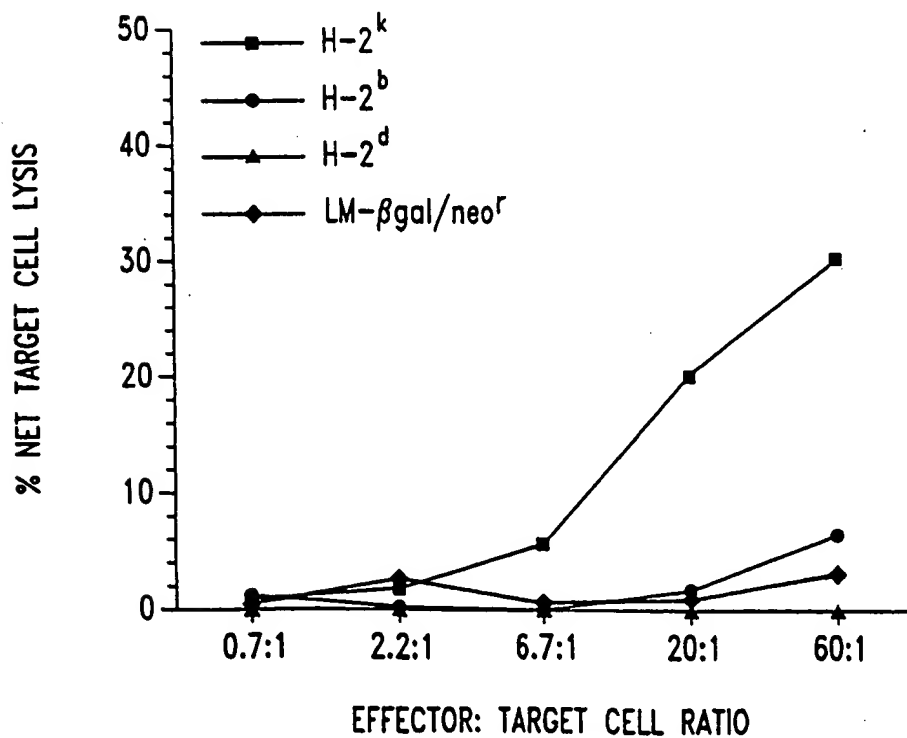


FIG. 10

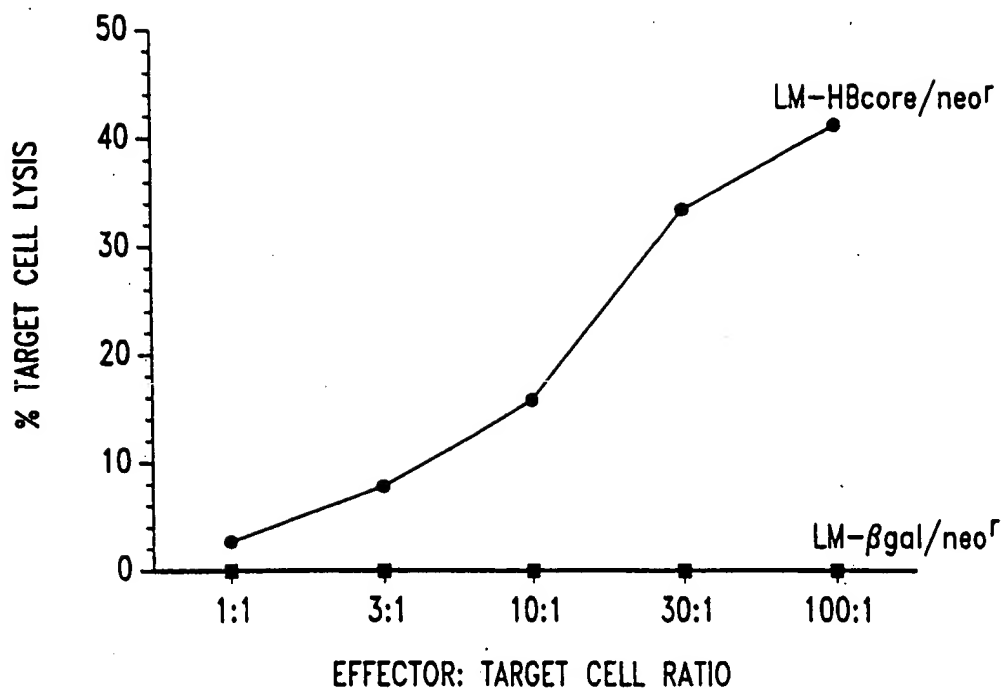


FIG. 11A

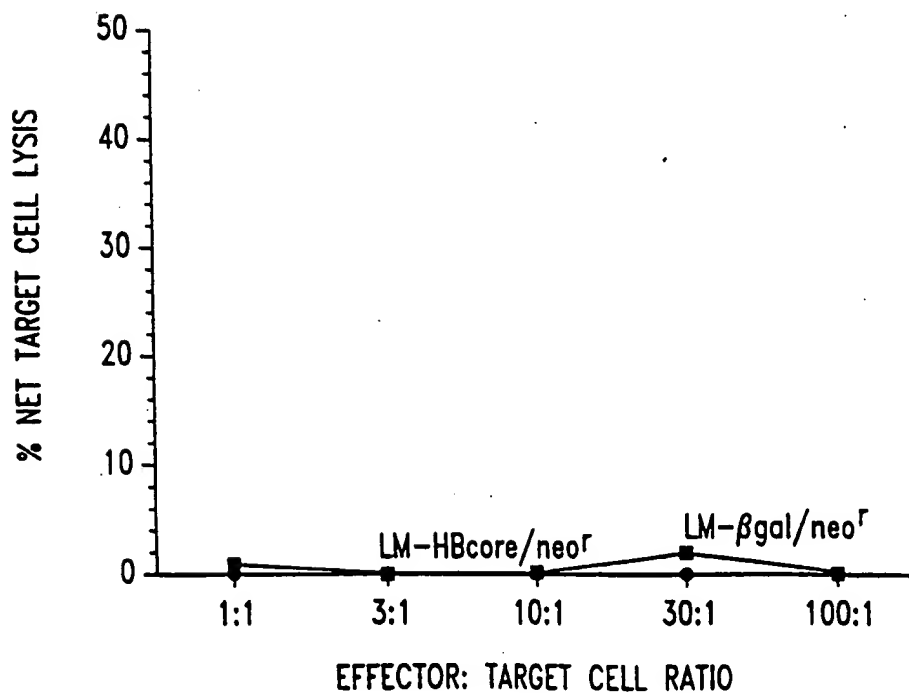


FIG. 11B



Ab Isotype Titers in C3H/He Mice Immunized with Formulated Vectors

# of Ins. IM (2 sites)	Formulated Vector	IgG	Anti-HBc/HBe				CTL
			G ₁	G ₂	G _{2b}	G ₃	
x2	Core 6A3	2560	40	10,240	40	0	+
x6	Core 6A3	2560	2560	10,240	160	0	+
x4	Precore/e5A 2	640	640	40	0	0	-

FIG. 12

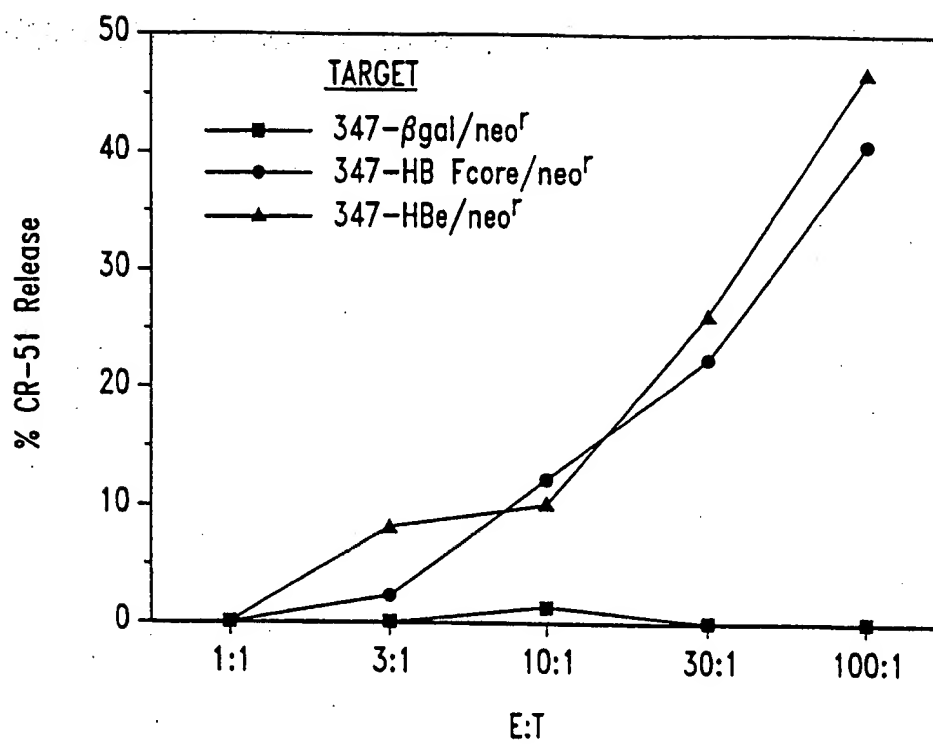


FIG. 13

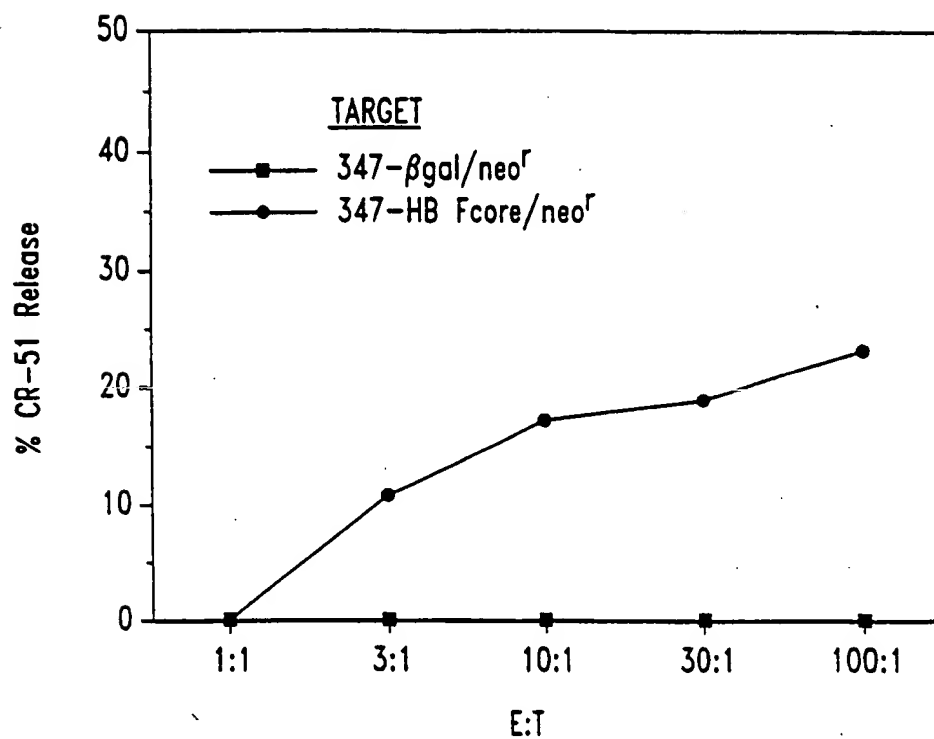


FIG. 14A

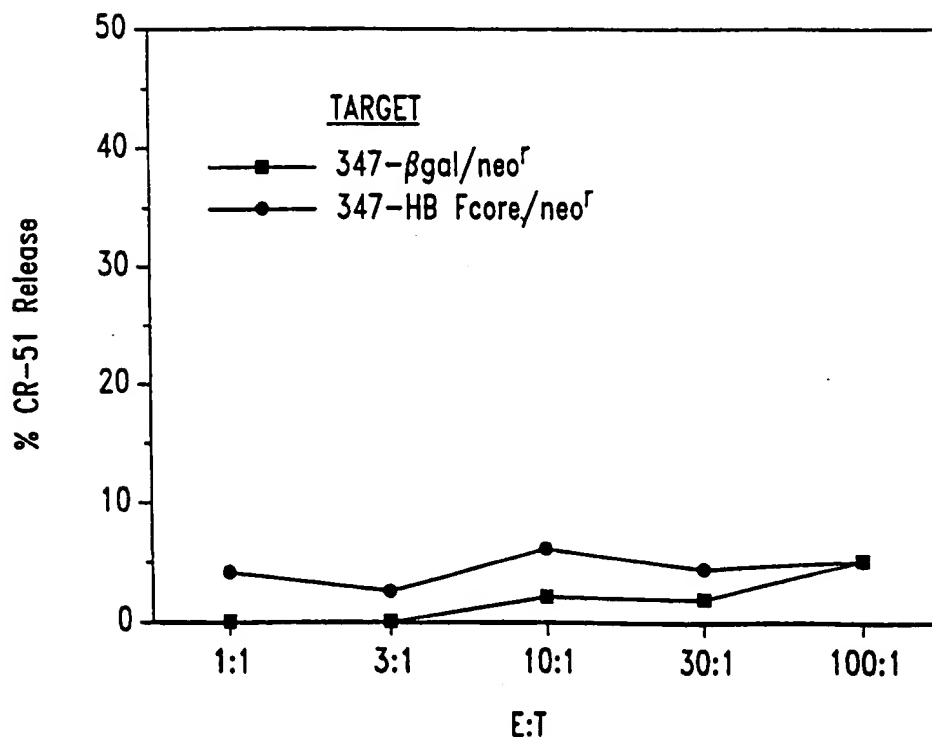
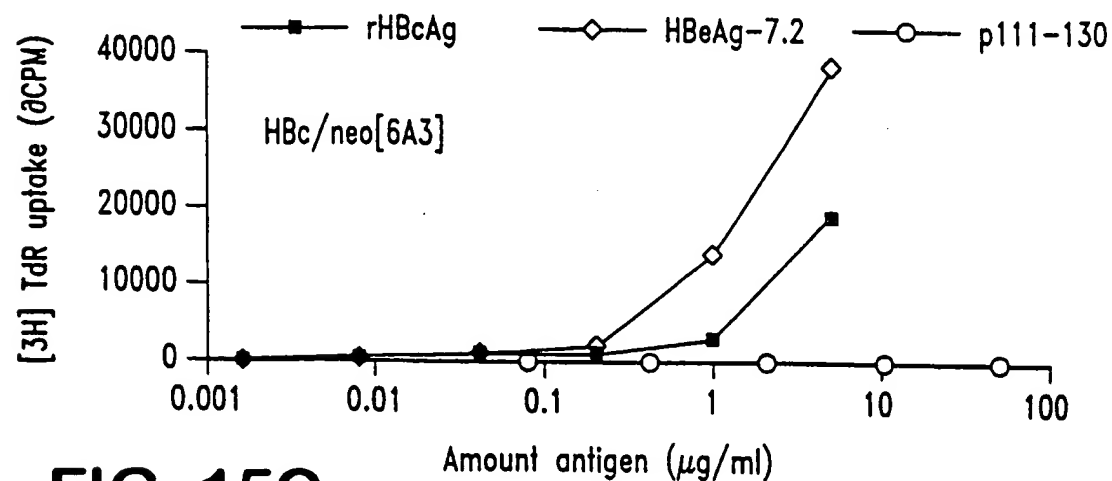
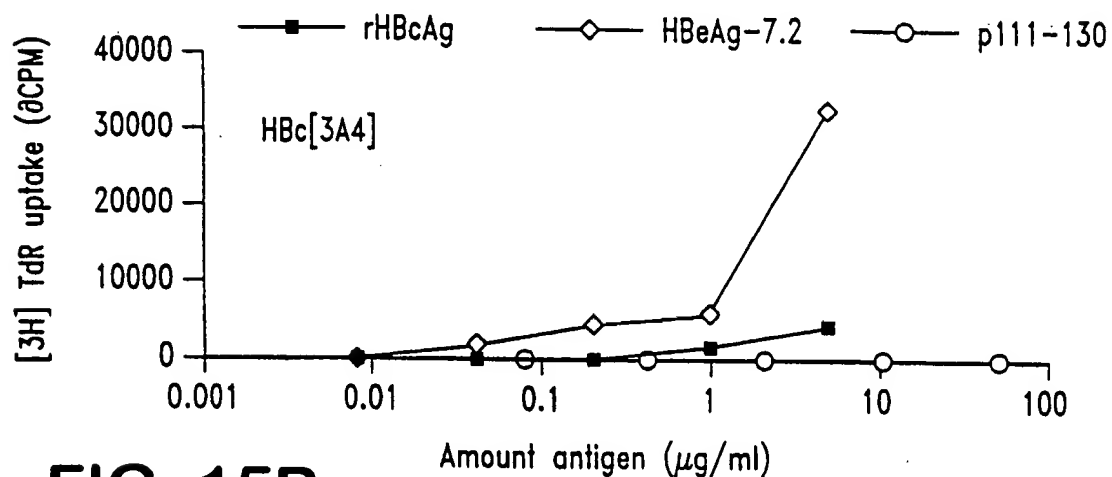
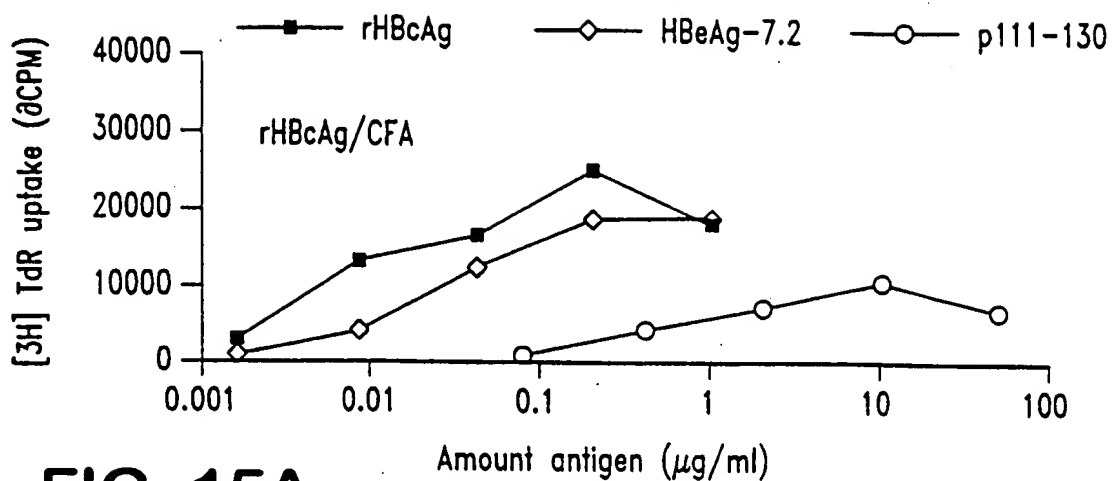


FIG. 14B



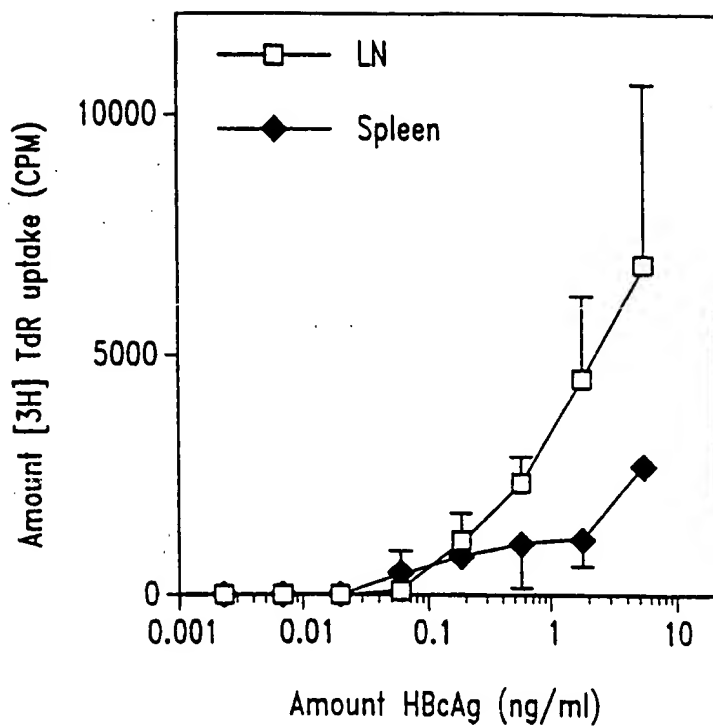


FIG. 16A

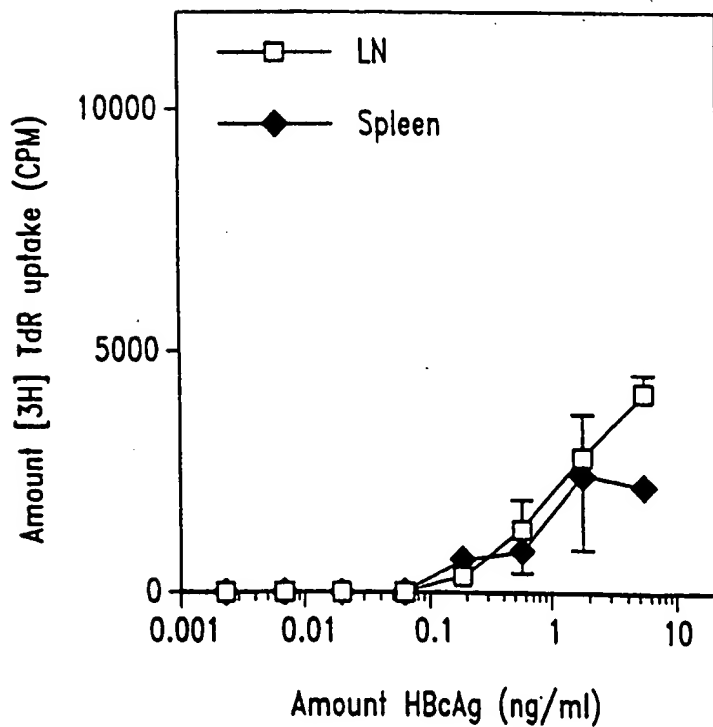


FIG. 16B

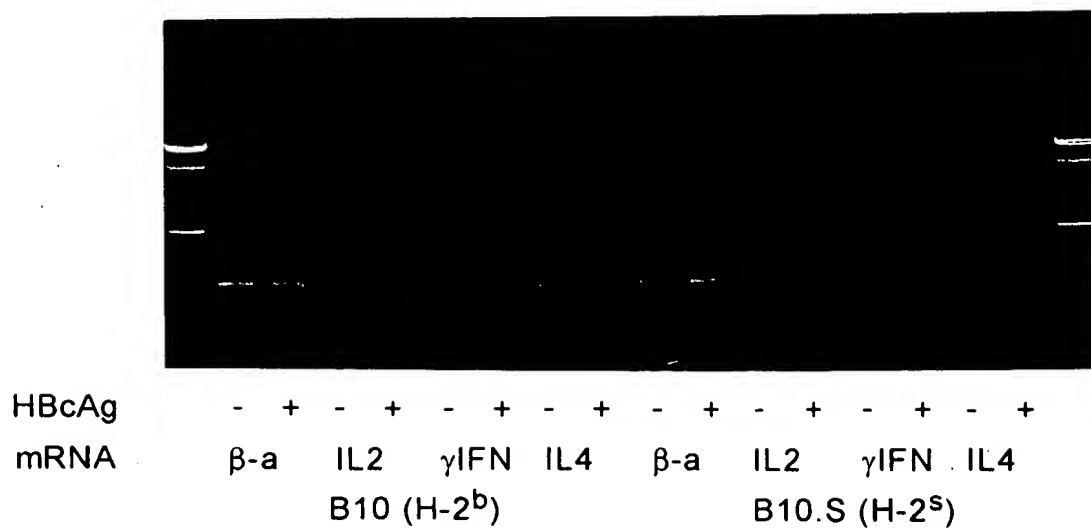


FIG. 16C

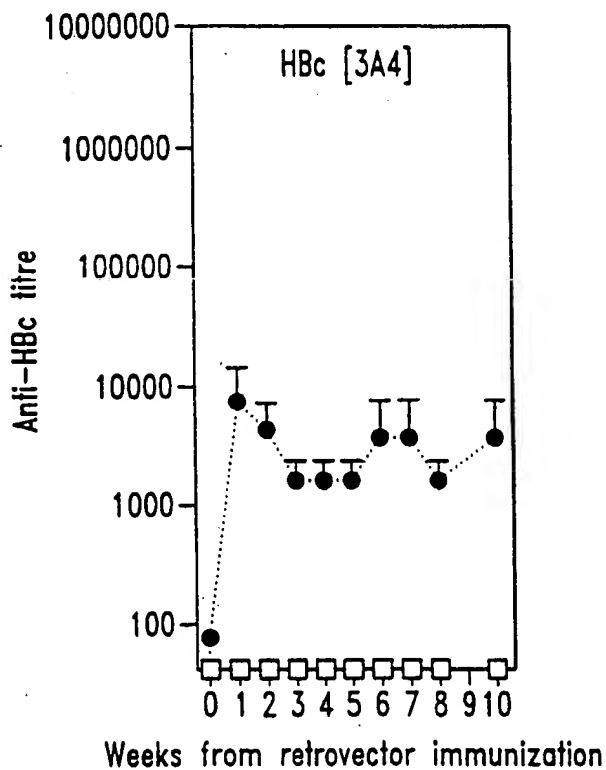
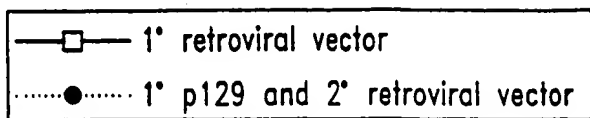


FIG. 17A

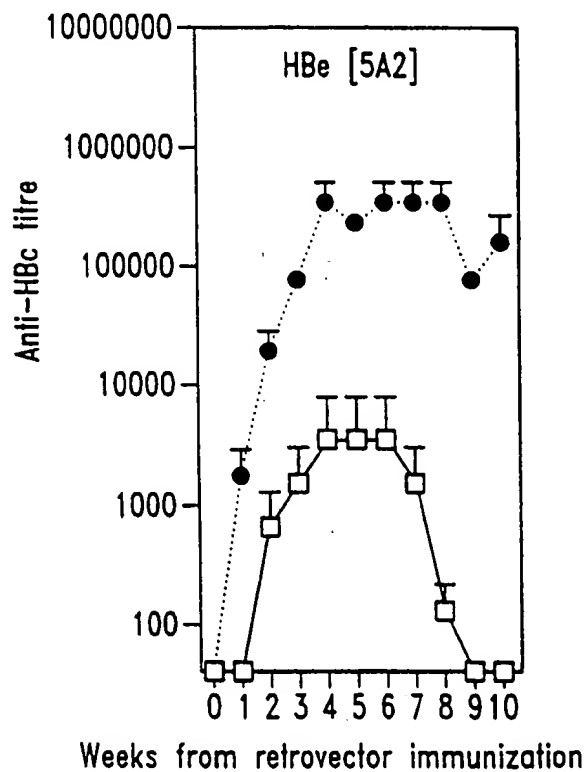
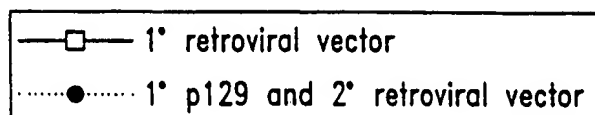


FIG. 17B

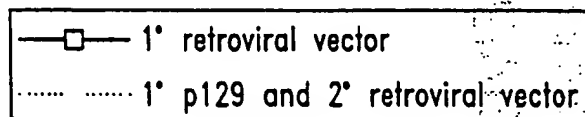
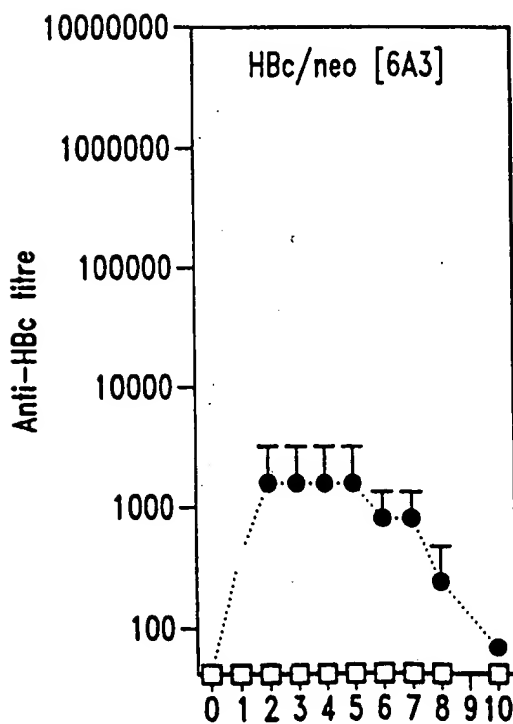


FIG. 17C